BRUHAT BANAGLORE MAHANAGARA PALIKE

Executive Engineer -yelahanka Division

Detailed Estimate

Name of the Work Construction of CC roads and drains main and cross roads of Kote bheedhi in ward no-02 of Yelahanka sub division

Estimate Amount : 2000000.00

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	CIVIL WORKS								
1	Removing & Refixing Stone Slabs of drains and Pointing in C.M(1:3)								
	(Page No 25., I.No.5.33 of KPWD S.R 2016-17)								
		Sqm							
	Basic rate	*76.00*							
	Area Wieght age @ 6%	*4.56*							
	Total Rate in Rs	*80.56*							
	4th Cross road from Besthara bheedhi road to dead end								
	LHS								
	Ch: (15 - 77)		1	62	0.60		37.20		
	RHS								
	Ch: (0 - 77)		1	77	0.90		69.30		
	Cross road from 4th cross								
	Ch: (0 - 104)		2	104	0.75		156.00		
							262.50		
	Deduction for damaged and missing33%						**-86.63**		
							175.88	**80.56**	**14168.49**
2	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3								
	(Page No142., I.No.19.1 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	*82.00*							
	Area Wieght age @ 6%	*4.92*							
	Total Rate in Rs	*86.92*							
	Desilting								
	4th Cross road from Besthara bheedhi road to dead end								
	LHS								
	Ch: (15 - 77)		1	62	0.45	0.600	16.74		
	RHS								
	Ch: (0 - 77)		1	77	0.60	0.400	18.48		
	Cross road from 4th cross								
	Ch: (0 - 104)		2	104	0.45	0.500	46.80		
	new drain								
	4th Cross road from Besthara bheedhi road to dead end								
	LHS								
	Ch: (0 - 15)		1	15	1.20	0.800	14.40		
	New culverts								
	Ossalut, Nagenaballi Puttenaballi, Konchenaballi		4	7	1.80	0.800	40.32		
							136.74	**86.92**	**11885.44**

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
3	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted,in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2								
	(Page No 12., I.No.4.2 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	*5046.00*							
	Area Wieght age @ 6%	*302.76*							
	Total Rate in Rs	*5348.76*							
	new drain								
	4th Cross road from Besthara bheedhi road to dead end								
	LHS								
	Ch. (0 - 15)		1	15	0.90	0.150	2.03		
	New culverts								
			4	7	1.50	0.150	6.30		
							8.33	**5348.76**	**44528.43**
4	Providing and laying Plain /reinforced cement concrete for side drains wall and bottom thickness 15cm using M20 nominal mix concrete with OPC cement at 300kg with 20mm and down size granite metal coarse aggregate at 0.69 cum and fine aggregate at 0.43 cum machine mixed well compacted for walls at bottom including centring shuttering cost of materials HOM of machineries curing etc completeexcluding cost of steel as per MORTH specification No.1500,1700,2200								
	(Page No265., I.No.37.59.2 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	*10408.00*							
	Area Wieght age @ 6%	*624.48*							
	Total Rate in Rs	*11032.48*							
	New drain								
	Raft								
	4th Cross road from Besthara bheedhi road to dead end								
	LHS								
	Ch. (0 - 15)		1	15	0.90	0.150	2.03		
	New culverts								
	Wall		4	7	1.50	0.200	8.40		
	4th Cross road from Besthara bheedhi road to dead end								
	LHS								
	Ch. (0 - 15)		2	15	0.15	0.900	4.05		
	New culverts								
			8	7	0.20	0.900	10.08		
							24.56	**11032.48**	**270902.55**
5	KSRB 4.9.2 : Providing T .M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 for TMT Bars Fe500								
	(Page No 17., I.No.4.46.2 of KPWD S.R 2016-17).								
		Tonne							
	Basic rate	*56050.00*							
	Area Wieght age @ 6%	*3363.00*							
	Total Rate in Rs	*59413.00*							
	New drain								
	Taking 60kg/cum								
							1.47		
							1.47	**59413.00**	**87533.17**

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
6	Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-								
	Data rate								
		Sqm							
	Total Rate in Rs	***1757.00***							
	For damaged Drain								
							86.63		
	4th Cross road from Besthara bheedhi road to dead end								
	LHS								
	Ch: (0 - 15)		1	15	0.90		13.50		
							100.13	**1757.00**	**175919.63**
7	Providing precast slab of 250 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-								
	Data rate								
		Sqm							
	Total Rate in Rs	***4725.00***							
	New culverts								
			4	7	1.50		42.00		
							42.00	**4725.00**	**198450.00**
	Sub total-1								**803387.71**
	ROAD WORKS								
8	KSRRB M300-14. Excavation for roadwork in all type of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301								
	(Page No 143., I.No.19.14 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	***46.00***							
	Area Wieght age @ 6%	***2.76***							
	Total Rate in Rs	***48.76***							
	4th Cross road from Besthara bheedhi road to dead end								
	Ch: (0 - 77)		1	77	5.15	0.400	158.62		
							158.62	**48.76**	**7734.31**
9	KSRRB M400-6.2. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, spreading in uniform layers with motor grader on prepared surface mixing by mix in place method by rotavator at OMC, and compacting with vibratory power roller to achieve the desired density, complete as per specifications. B. Mix in place Method. For Grading- II Material								
	(Page No 155., I.No.20.5.2 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	***1408.00***							
	Area Wieght age @ 6%	***84.48***							
	Total Rate in Rs	***1492.48***							
	4th Cross road from Besthara bheedhi road to dead end								
	Ch: (0 - 77)		1	77	5.15	0.150	59.48		
							59.48	**1492.48**	**88776.44**

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
10	KSRRB M600-1 Construction of dry lean cement concrete mix CC 1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383,) aggregate cement ratio not to exceed 15:1,aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH Specification No. 601 **(Page No,-176, I.No.22.1 of KPWD S.R 2016-17)**									
		Cum.							
	Basic rate	*3761.00*							
	Area Wieght age @ 6%	*225.66*							
	Total Rate in Rs	*3986.66*							
	4th Cross road from Besthara bheedhi road to dead end								
	Ch: (0 - 77)		1	77	5.15	0.100	39.66		
							39.66	**3986.66**	**158091.00**
11	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M30(at 360 kg per cum coarse aggregate @ 0.69 cum and fine aggregate @0.46 cum) , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing) Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specification .**(Page No 177., I.No.22.6.1 of KPWD S.R 2016-17).**									
		Cum.							
	Basic rate	*5866.00*							
	Area Wieght age @ 6%	*351.96*							
	Total Rate in Rs	*6217.96*							
	4th Cross road from Besthara bheedhi road to dead end								
	Ch: (0 - 77)		1	77	5.15	0.150	59.48		
	Cross road from 4th cross Sathyaraya upto Kuppicherry, Srinivasa Temple bacrcicle road Rd								
	Ch: (0 - 104)		1	104	3.50	0.150	54.60		
							114.08	**6217.96**	**709360.42**

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
12	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to10kms. .(Refer Table. Page No.140)								
		Cum.							
	Basic rate	*100.00*							
	Total Rate in Rs	*100.00*							
				For item no	2		136.74		
				For item no	8		158.62		
							295.36	100.00	29536.00
	Sub total-2								993498.17
	Total								1796885.88
13	Cost towards Preperation of DPR,PMC/QC @ 2%								35937.72
14	Cost towards KIRDL Charges @ 9%								161719.73
15	Miscllenous and other charges								5456.67
	Grand Total								2000000.00

Certificate:-

1. That the workspot has been inspected and provisions made in the estimate are adequate and necessary
2. Work spot comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That estimate is based on the PWD SR of 2016-17
4. The work is not split up
5. These works are not taken up in any grants and free from defect liability period
6. Earlier improvements taken up in the proposed roads are recorded in road history

Mecadez Core Technologies Private Limited

Consultant:
For M/s Mecadez core technologies pvt ltd

Asst. Engineer
Ward No:2
BBMP

AEE
yelahanka Sub division
BBMP

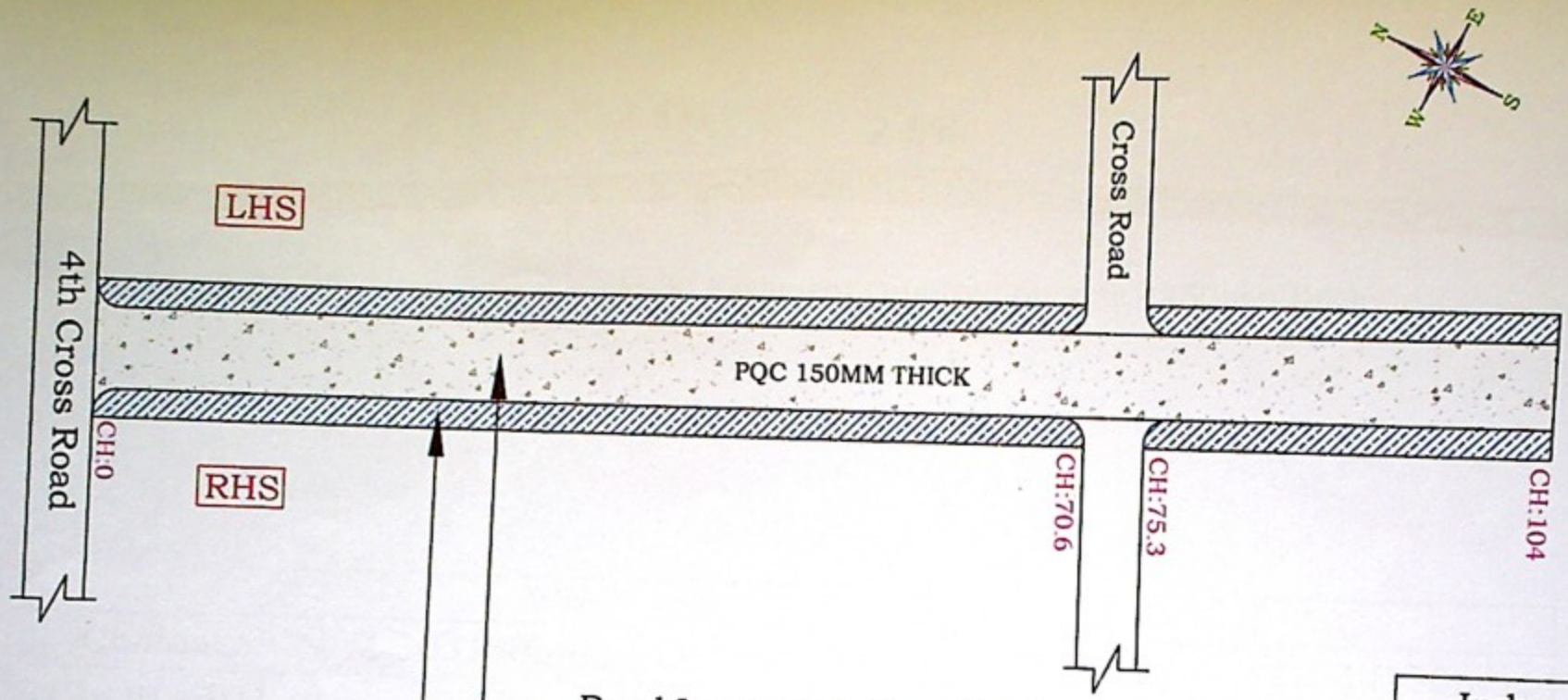
Executive Engineer
yelahanka division
BBMP

Administrative Approval
Accorded For 20.00 lakh Rs
Head of A/C P 3089
CER NO : 237 Dt:.28.3.17

TECHNICALLY SANCTIONED FOR Rs. 20.00 lacs
Rupees Twenty Lakhs
only
Under P - 3089 - 2015.16
Registered as CE ( ) No. 99
Subject to conditions contained in enclosed memo ( ) No. /91
Dt. EE/TC/114/16-17
Dated 28.3.17 Sanctioned No. Rs. 20.00 lacs

Executive Engineer

Cross road from 4th cross



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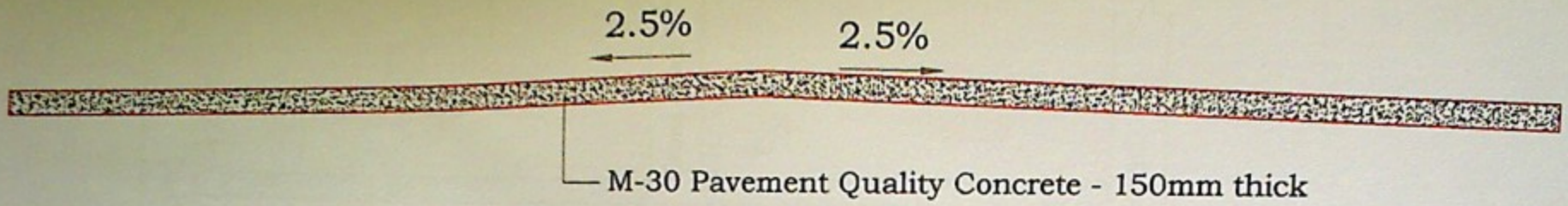
Assistant Engineer
Ward No -2
BBMP

Assistant Executive Engineer
yelahanka Sub division
BBMP

Executive Engineer
yelahanka division
BBMP

PROJECT NAME	DRAWING TITLE		CONSULTANTS
Construction of CC roads and drains main and cross roads of Kote bheedhi in ward no-02 of Yelahanka sub division	Strip Plan	BRUHAT BENGELURU MAHANAGARA PALIKE	M/s. Mecadez Core Technologies Private Limited Project Management and Conultancy No.103, 1st Main Road, 3rd Cross, Nagadi Main Road, Kottigepalya, Bangalore-560091.

Cross road from 4th cross



	Width in m			
Chainage	M-30 (150mm)	DLC (100mm)	Chainage	GSB (150mm)
Ch: (0 - 104)	3.50	3.50	Ch: (0 - 104)	3.50

Assistant Engineer
Ward No - 2
BBMP

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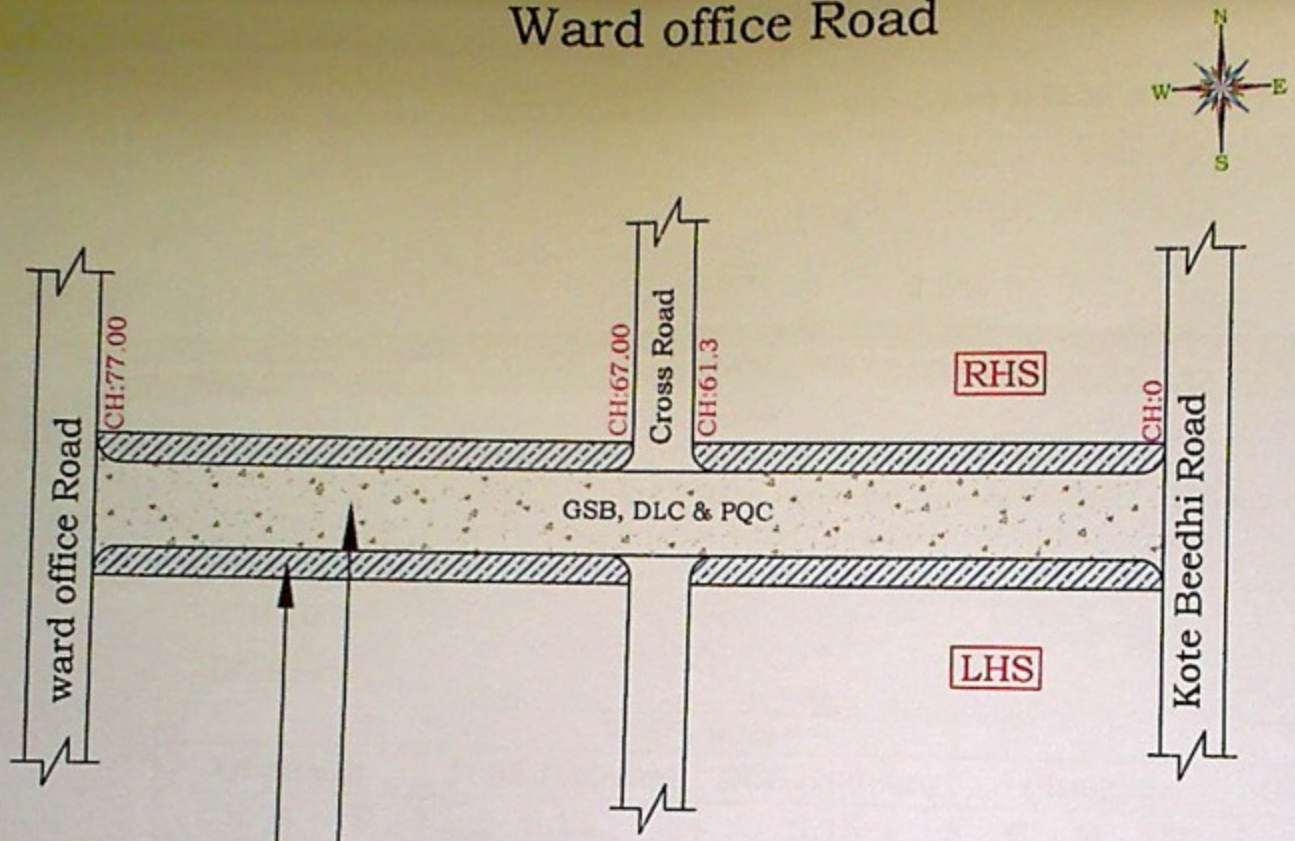
Yelahanka Sub division
BBMP

Executive Engineer
Yelahanka Division
BBMP

PROJECT NAME	DRAWING TITLE		CONSULTANTS
Construction of CC roads and drains main and cross roads of Kote bheedhi in ward no-02 of Yelahanka sub division	Cross section	BRUHAT BENGELURU MAHANAGARA PALIKE	M/s. Mecadez Core Technologies Private Limited Project Management and Consultancy No.103, 3rd Main Road, 3rd Cross, Magadi Main Road, Kottigepalya, Bangalore-560091

3RD Cross road from Kote bheedi road to Ward office Road



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